

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 117 23700 A

Approval Date: 12/26/2018
Expiration Date: 06/26/2020

Straight Hole Oil & Gas

Amend reason: ADD FORMATION; CHANGE TOTAL DEPTH

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 21N Rge: 8E

County: PAWNEE

SPOT LOCATION: ☐ NW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 140 290

Lease Name: DL MURPHY

Well No: 27

Well will be 2350 feet from nearest unit or lease boundary.

Operator Name: MID-CON ENERGY OPERATING LLC

Telephone: 9187437575; 9187437

OTC/OCC Number: 23271 0

MID-CON ENERGY OPERATING LLC
2431 E 61ST ST STE 850
TULSA, OK 74136-1236

JEFF & ANN OLMSTEAD
2431 E. 61ST ST., STE. 850
TULSA OK 74136

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth		Name	Depth
1	LAYTON	1200	6	BARTLESVILLE	2250
2	CHECKERBOARD	1500	7		
3	CLEVELAND	1600	8		
4	BIG LIME	1900	9		
5	OSWEGO	1950	10		

Spacing Orders: 609199

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 2400

Ground Elevation: 812

Surface Casing: 300

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: VAMOOSA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

Notes:

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District
Office of the Conservation Division as to when Surface Casing will be run.

117 23700 DL MURPHY 27

Category	Description
HYDRAULIC FRACTURING	12/16/2018 - G71 - OCC 165:10-3-10 REQUIRES: 1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE; 2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG
SPACING - 609199	2/7/2019 - G75 - (UNIT) S2 17 & 20-21N-8E EST CLEVELAND FIELD UNIT TOP CGGV TO BASE ABCK